

A scenic view of a mountain valley. In the foreground, there are green pine trees. The middle ground shows a valley with a cluster of buildings, likely the training center, surrounded by green fields and some rocky terrain. In the background, there are large, rugged mountains under a clear blue sky. The text is overlaid on this image.

*Marine Corps  
Mountain Warfare Training Center  
Pickel Meadow, California*

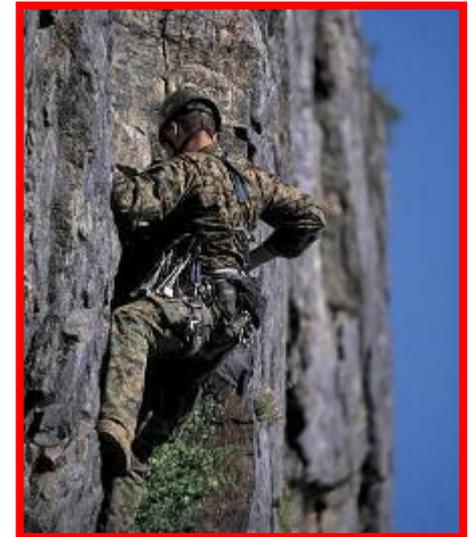
*Command Brief  
for  
NJMAC  
March 2014*



# *Mission*

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The Marine Corps Mountain Warfare Training Center conducts *unit and individual training* courses to prepare USMC, Joint, and Allied Forces *for operations in mountainous, high altitude and cold weather environments*; and the development of warfighting doctrine and specialized equipment for use in mountain and cold weather operations.



**“ Highest altitude (6,800 to 11,100 feet) training base / venue in DOD! “**



# *Other key components to our Mission*

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- Doctrine
  - MCWP 3-35.1 Mountain Warfare Operations (MWO)
  - MCRP 3-35.1A Small Unit Leaders Guide to MWO
  - MCRP 3-35.1B Mountain Leader's Guide to Winter Ops
  - MCRP 3-35.1C Mountain Leader's Guide to MWO
  - MCRP 3-35.1D Cold Region Operations
  - MCRP 3-35.1E Special Forces Use of Pack Animals
- DoD Lead Agent for Mountain & Cold Weather Operations
- Research, Development, Test & Evaluation
  - Mountainous & Cold Weather Clothing / Equipment



# *Future Threats*

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- Mountains cover 24% of the Earth's land mass: 64% of Asia, 25% of Europe, 22% of South America, 17% of Australia, and 3% of Africa.
- Asia is the world's largest and most populous continent with approximately 4 billion people (60% of world population)
- Majority of the world's rivers are fed from mountain sources, **and more than half of humanity depends on mountains for water**
- Future National Security Challenges
  - Arc Of Instability: Militancy across Asia

*“Sixteen of the 20 states of interest have regions with elevations equal to or greater than 2,438 meters (8,000 feet) and average temperatures of 40 °F and below.”*

*Potential enemy forces are expected “to use the inherent advantage that mountainous terrain and weather offer in order to negate US technological advantages in intelligence, surveillance, reconnaissance (ISR), and firepower.”*



# *MCMWTC Base Camp / Military Housing*



Child Development Center

Commissary / MCX

## MILCON Project

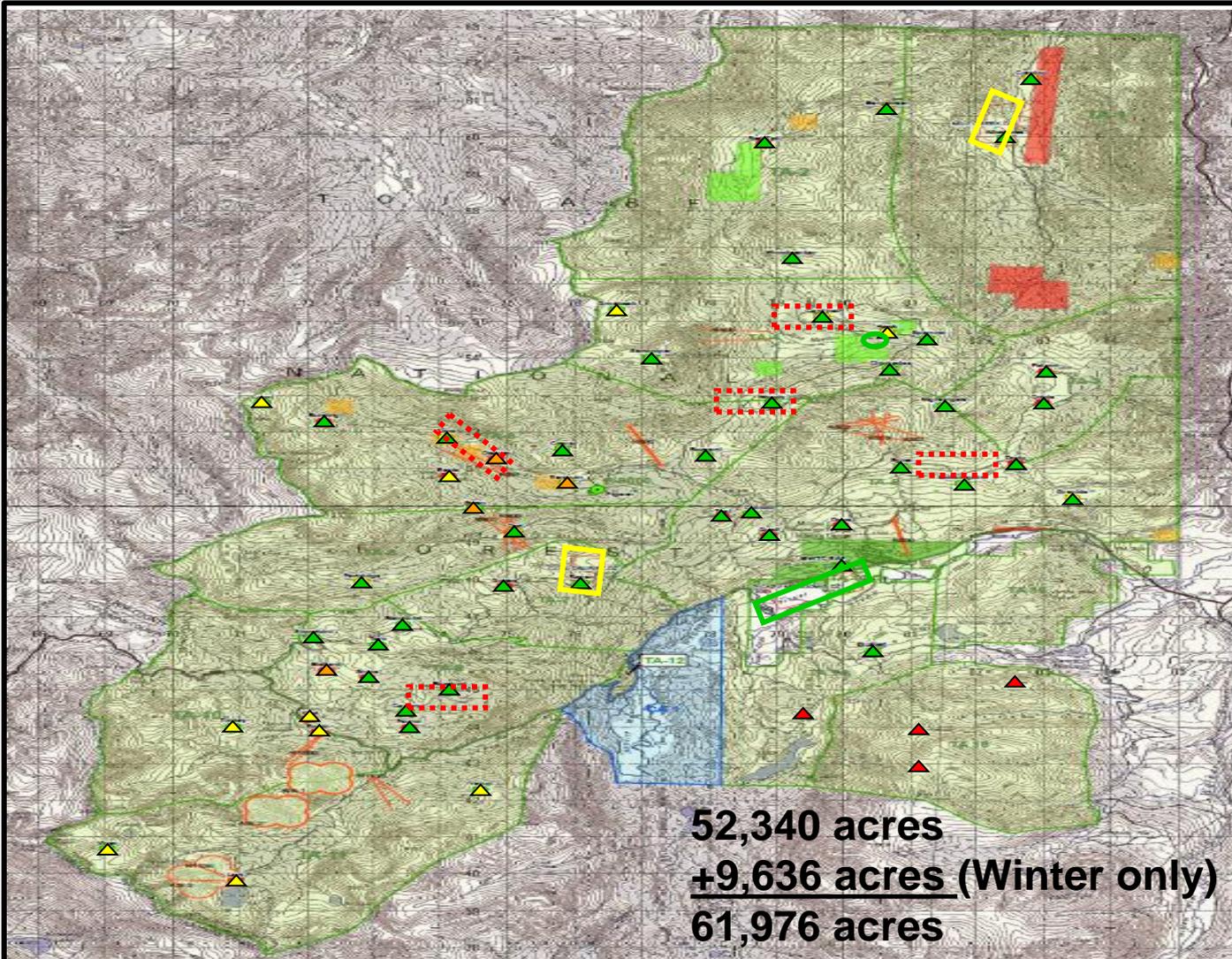
- Multi-Purpose BLDG  
- Formal Schools / MCX

Marine Officers:	17
Marine Enlisted:	191
Navy Officers:	2
Navy Enlisted:	9
British Royal Marine:	1
Civilian Marines:	82
<u>NAF Civilians:</u>	<u>40</u>
Total:	342

“ DoN/USMC Property - 346 acres (Base Camp) “



# *USFS Land / Training Area*



# MCMWTC Training Venues

B-17 Ranges

NAS  
Fallon



~53 mi

HWAD

Ryan Canyon



Rocket



Lucky Boy Pass



Mt Grant

~60 mi

~90 mi

SWEETWATER  
AIRSTRIP



MWTC





# *Mountain Exercise (MTX)*

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**Purpose:** Per the Marine Corps Mountain Warfare Operations Training and Readiness Manual; train elements of the MAGTF across the warfighting functions for operations in complex, compartmentalized, and mountainous terrain utilizing military mountaineering skills in order to enhance a unit's ability to shoot, move, communicate, sustain, and survive in mountainous regions of the world.

– **Phase I: Preparation and Deployment**

- Mountain Warfare Formal Schools (MWFS) - SMLC, WMLC, MSSC, MCCCC, CWM, MMED, MOSPC, ANPK, & Survival
- Assault Climbers Course & Scout Skier Course
- MOSPC Classes, MCPP & TEWT
- Pre-Environmental Training (PET) & COMEX

– **Phase II: Shaping**

- Basic Mobility - Military Mountaineering (Summer and Winter)
- CPX

– **Phase III: Decisive Action**

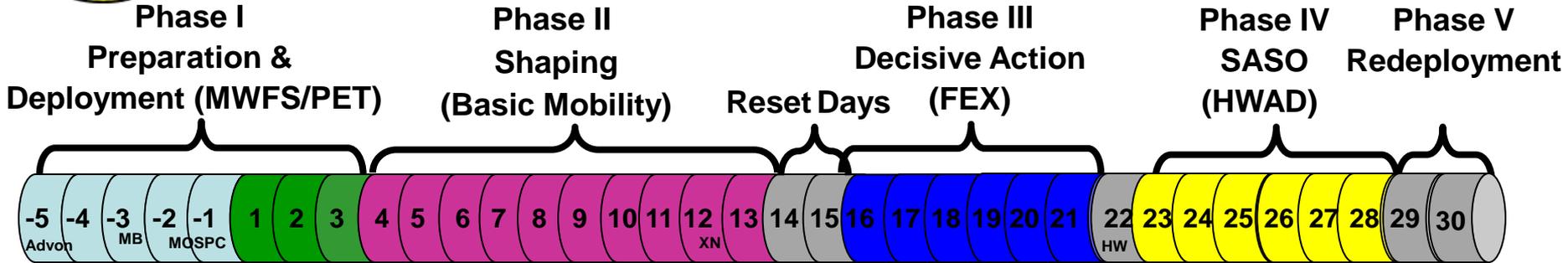
- FEX – Offense and Defensive Operations

– **Phase V: Redeployment**



# MTX Phases

(6 x MTX / FY)



### Phase I Formal Schools

- Summer Mountain Leader Course
- Winter Mountain Leader Course
- Mountain Scout Sniper Course
- Mountain Medical Course
- Cold Weather Medical Course
- Animal Packer Course
- Mountain Ops Staff Planning Course
- Mountain Communications Course
- Mountain Survival Course

### Phase I Pre-Environmental Training

- Mountain/Cold weather leadership
- Mountain Safety
- Mountain Weather
- Mountain Health Awareness
- Personal Clothing and Equip
- Warfighting Load Requirements
- Snowshoes Movement (Winter)
- Bivouac Routine
- MCWIK – (Winter)
- Avalanche Awareness (Winter)
- Route Planning
- Mountain Movement Techniques
- Navigation in the Mountains
- CASEVAC Considerations
- Weapons and Optics Considerations

### Phase II Basic Mobility

- Survival
- Survival Fires
- Water Procurement
- Expedient Shelters
- Survival Navigation
- Survival Signaling
- Avalanche Search Procedures (Winter)
- The Squad Tent & Stove (Winter)
- Land Navigation
- Over the Snow Mobility (Winter)
- Negotiate Snow and Ice Covered Obstacles (Winter)
- Sled Employment (Winter)
- Movement Over Rough Terrain
- Skijoring (Winter)
- TRST Skills (negotiate horizontal and vertical obstacles)

### Phase III Company Tasks

- Occupy an Area / Establish a Defense
- Conduct a Patrol
- Conduct a Raid
- Conduct COIN Operations
- Conduct Security Ops
- Conduct a Cordon and Search / KLE
- Move on Rough Terrain / TRST
- Conduct Counter-IED Ops
- Establish an Overwatch / SBF
- Conduct Intelligence Ops / TSE
- React to a Meeting Engagement
- Water obstacle crossing
- Process a Casualty
- Conduct a Link Up
- Conduct Convoy / Motorized Ops
- Conduct an Attack (Day / Night)
- Conduct Urban Ops
- Conduct C2
- Conduct Maneuver
- Conduct Sustainment
- Conduct Fire Planning
- Conduct Force Protection

### Phase III Battalion Tasks

- Conduct Staff Planning
- Conduct Offensive Operations
- Conduct Defensive Operations
- Conduct Intel / TSE
- Operate the FSCC
- Conduct Fire Spt Coord
- Conduct Tactical Logistics
- Conduct MOUT Ops

### Phase IV HWAD

- Includes Plt (REIN) LF and Maneuver
- Co CIED lane training
- Co MOUT
- CSW LF
- Convoy Ops



# *MCMWTC Training Capability*

- Resiliency / Combat Conditioning
- Conduct Offensive / Defensive Operations
- Conduct COIN / Stability Operations
- **Conduct Joint / Coalition Operations**
  - USA: ODA Tms, Sapper, NG Aviation units
  - USAF: EOD Tms, MC12
  - USN Seal Tms, Aviation SAR
- **Enabler Training**
  - Intel Bn
  - Radio Bn
  - MEU Enablers
- CIED Training
  - MCEC CIED Training (MLFs 1, 2, 3A, 4A, 4B, 6, 7)
  - CREW (Guardian System) equipment
  - Man-portable (Guardian System)
  - Mine Roller training/prac app
- Conduct Aviation Operations
  - Assault Support
  - Close Air Support
- SIMCAS
  - CDS Drop
  - ISR
    - Surrogate UAS
    - Group 1 UAS
    - MUSE
    - MC-12
- Mounted Operations
  - ESD supported Co Set of Equipment
  - UAH, MTRVs, BFT
  - Convoy lanes / Rough Terrain Driving
  - CIED Lanes
- **Exercise Command and Control**
  - UOC - CAPSET III (Regt)
  - UOC – CAPSET IV (Bn)
  - HW = HF, UHF, VHF, and SATCOM
  - SW = Marine Link, CPOF, C2PC, SPARK
  - EXCON Staff - Director, Operations Chiefs/Planners, Intel, and C4I Planner
  - ExCon link to MCTOG / MISTC / MCTSSA
  - GBOSS – GBOSS Lite and Ceribus Lite systems and contractor training
- Combined Arms Live Fire
  - HWAD Ranges
  - Co Combined Arms Attacks
- Survival
- Law of War / ROE / EOF
- Information Operations
- Tactical Site Exploitation (TSE)



# *MTX Phase I*

## *Mountain Warfare Formal Schools*

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- Summer Mountain Leader Course
- Winter Mountain Leader Course
- Mountain Scout Sniper Course
- Mountain Medical Course
- Cold Weather Medical Course
- Animal Packer Course
- Mountain Ops Staff Planning Course
- Mountain Survival Course
- Mountain Communications Course
- Assault Climbers Course
- Scout Skier Course

### ***Proof of Concept Courses***

- Summer Mountain Engineer Course
- Winter Mountain Engineer Course
- Special Operations Horsemanship Course





# *MCMWTC JNTC Program*

**Joint National Training Capability Accredited and Certified**

**Purpose:** Expand joint training opportunities across the MCMWTC through implementation of innovative collective and individual training solutions that facilitate *transition* from our current focus on counterinsurgency to a broader focus in accordance with guidance provided in *Priorities for 21st Century Defense*.

## **JNTC Accredited Tasks:**

- OP 1 Conduct Operational Maneuver
- OP 6.5.5 Integrate Host-Nation Security Forces and Means
- TA 3.2.1.1 Engage Time Sensitive Targets
- TA 5 Exercise Command and Control
- TA 6.2 Execution Personnel Recovery Operations
- TA 6.9 Conduct Counter Improvised Explosive Device (CIED) Operations



## **Priorities during every MTX:**

- Live SOF unit participation
- Joint aviation support
- Live UAS support

## **Joint / Contracted Support:**

- Joint Electronics Warfare Center
- Surrogate UAS
- SOF Trainer



# Joint Forces Trained

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- US Army
  - Active GPF, SOF, NG, aircraft participation within:
    - Mountain Exercise
      - SOF/GPF Interoperability
      - Assault Support
      - Hoist and MEDEVAC
      - HST
    - Formal Courses
      - Students
      - Assault Support
      - Hoist and MEDEVAC training
- USN
  - NSW, Active GPF, aircraft participation within:
    - Formal Courses
      - Students
    - Unilateral training
      - NSW
      - NSAWC
- USAF
  - EOD, ANG , aircraft participation within:
    - Mountain Exercise
      - MC-12 ISR Support
      - ISR analysis and dissemination
      - Air Drops
      - EOD support
    - Formal Courses
      - Students
    - Unilateral training
      - Para rescue



# *Coalition Forces*

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- Pacific Rim
  - III MEF & ROK Cold Weather Training Exercise (Jan 2013)
    - Mountain / Cold Weather MTTs
    - MWTC Deploys Mountain Leader Instructor's with the Company's
- British Royal Marines
  - Black Alligator
  - Exercise Ice Flip
  - Exercise First Pitch
- Dutch Royal Marines
- Canadian Forces
- German Mountain Winter Warfare Training Center
  - Mountain and Cold Weather Course
  - Mountain Sniper Course
  - Animal Packers Course
- Nepalese Army High Altitude and Mountain Warfare School
- Chilean Mountain Leader's Course
- Uzbekistan Army Mountaineering Exchange
- Norwegian Allied Officers Winter Warfare Course
- United Arab Emirates Presidential Guard (Sep – Oct 13)





# *Governmental Agencies*

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- United States Forest Service
- National Park Service
- Federal Bureau of Investigation SWAT
- State and Local Law Enforcement Agencies
- Defense Advanced Research Projects Agency
- Uniformed Services University of the Health Sciences
- Office of Defense Training Center (Aviation)



# *MCMWTC Aviation Ops*

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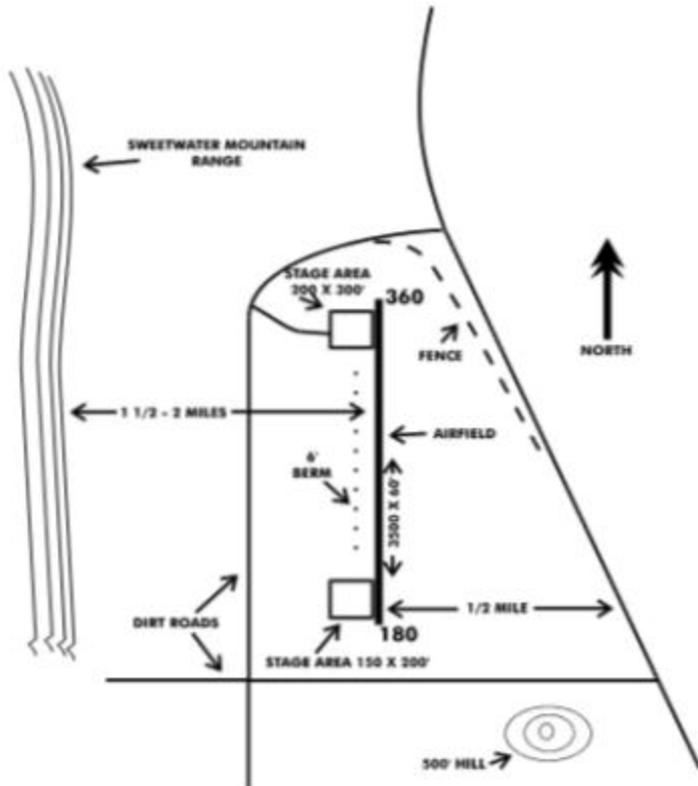
- **High Altitude Aircraft Operations and Training**
- **Class G Airspace**
- **Training Area and EAF Hours**
  - Flexible based on training requirements
  - Hot Fuel
  - Night Operation/ Airfield Lighting
  - Air Operations Building and Hangar for training unit
    - Ready room for briefing with computer drops
    - ASOS for weather briefing
- **Multiple LZs and DZs designated**
  - 58 LZ's and DZ's (Elev. 6400'-11,000' MSL)
- **Fixed Wing and UAS operations are authorized**
  - FW: Exercise Control Area 25 x 25 nm, Sfc-18K MSL
    - FAA Military Liaison Oakland Center
  - UAS: Surrogate UAS
  - Sim-CAS, ISR, Assault Support (Externals/CDS Drops)
- **No live fire**





# Sweetwater Airfield

**SWEETWATER AIRFIELD DEPICTION**  
38°30' 54" N 119°12' 49" W  
6868 FEET ELEVATION





# FY14 Mountain Exercise

MTX 1-14	MTX 2-14	MTX 3-14	MTX 4-14 (MFR)	MTX 5-14	MTX 6-14
10 Jan – 09 Feb	09 Mar – 06 Apr	27 May – 25 Jun	30 Jul – 17 Aug TDB Shift Left	18 Aug – 15 Sep	27 Sep – 24 Oct
ADVON 10 Jan – 12 Jan MB 13 Jan PET 16 Jan – 18 Jan BM 19 Jan – 28 Jan FEX 31 Jan – 05 Feb RP 07 Feb – 09 Feb	ADVON 09 Mar – 10 Mar MB 11 Mar PET 14 Mar – 16 Mar BM 17 Mar – 26 Mar FEX 29 Mar – 03 Apr RP 05 Apr – 06 Apr	ADVON 27 May – 28 May MB 29 May PET 01 Jun – 02 Jun BM 03 Jun – 14 Jun FEX 16 Jun – 21 Jun RP 23 Jun – 25 Jun	ADVON 30 Jul – 1 Aug MB 02 Aug PET 03 Aug – 04 Aug BM 05 Aug – 10 Aug FEX 11 Aug – 14 Aug RP 16 Aug – 17 Aug	ADVON 18 Aug – 19 Aug MB 20 Aug PET 23 Aug – 24 Aug BM 25 Aug – 05 Sep FEX 07 Sep – 12 Sep RP 14 Sep – 15 Sep	ADVON 27 Sep – 28 Sep MB 29 Sep PET 02 Oct – 03 Oct BM 03 Oct – 14 Oct FEX 15 Oct – 21 Oct RP 23 Oct – 24 Oct

GCE	2/2 (CR)	3/3 (UDP)	2/4 (MEU)	2/24	3/1 (MEU)	2/5 (MEU)
ACE	NVNG	NVNG	2 <sup>nd</sup> MAW	NV NG	HMH - 462	3 <sup>rd</sup> MAW
LCE	2 MLG	TBD	TBD	TBD	I MEF	I MEF



# *Questions?*

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# FY 14 TEEP - Formal POIs

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## Mountain Warfare Formal Schools

- **Assault Climber Course**
  - 1-14 (19 May 2014 – 16 Jun 2014)
  - 2-14 (07 Jul 2014 – 01 Aug 2014)
  - 3-14 (11 Aug 2013 – 5 Sep 2013)
  - 4-14 (TBD)
- **Scout Skier Course**
  - **1-14 (6 Jan 2014 – 28 Jan 2014)**
  - 2-14 (03 Mar 2014 – 26 Mar 2014)
- **Summer Mountain Engineer Course**
  - **1-14 (28 Jul 2014 – 18 Aug 2014)**
  - **2-14 (25 Aug 2014 – 15 Sep 2014)**
- **Winter Mountain Engineer Course**
  - **1-14 (24 Feb 2014 -16 Mar 2014)**
- **Winter Mountain Leaders Course**
  - 1-14 (6 Jan 2014 – 21 Feb 2014)
  - 2-14 (03 Mar 2014 – 18 Apr 2014)
- **Summer Mountain Leaders Course**
  - 1-14 (27 May 2014 – 11 Jul 2014)
  - 2-14 (21 Jul 2014 – 05 Sep 2014)
- **Mountain Command, Control and Communications Course**
  - **1-14 (6 Jan 2014 – 21 Jan 2014)**
  - 2-14 (5 Mar 2014 – 19 Mar 2014)
  - 3-14 (29 May 2014 – 12 Jun 2014)
  - 4-14 (16 Jul 2014 – 30 Jul 2014)
  - 5-14 (14 Aug 2014 – 28 Aug 2014)
  - 6-14 (18 Sep 2014 – 02 Oct 2014)
- **Cold Weather Medicine**
  - **1-14 (6 Jan 2014 – 24 Jan 2014)**
  - 2-14 (24 Feb 2014 – 14 Mar 2014)
- **Mountain Scout Sniper Course**
  - 1-14 (9 Jan 2014 – 29 Jan 2014)
  - 2-14 (05 Mar 2014 – 25 Mar 2014)
  - 3-14 (22 May 2014 – 11 Jun 2014)
  - 4-14 (10 Jul 2014 – 30 Jul 2014)
  - 5-14 (14 Aug 2014 – 03 Sep 2014)
- **Animal Packer Course**
  - 1-14 (29 May 2014 – 13 Jun 2014)
  - 2-14 (16 Jul 2014 – 31 Jul 2014)
  - 3-14 (21 Aug 2014 – 05 Sep 2014)
  - 4-14 (29 Sep 2014 – 14 Oct 2014)
- **Mountain Survival Course**
  - 2-14 (03 Apr 2014 – 22 Apr 2014)
- **Mountain Medicine**
  - 1-14 (19 May 2014 – 06 Jun 2014)
  - 2-14 (06 Jul 2014 – 25 Jul 2014)



# *Summer Mountain Engineer Course*

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The purpose of this course is to train Combat Engineers in engineer operations using tactics, techniques and procedures to serve effectively as force multipliers to their units during combat operations in complex, compartmentalized, mountainous terrain. Topics include rigging, mobility, counter-mobility, and survivability. This course supports the maneuver and force protection warfighting functions.

- Conducted once a year
- 21 Training Days
- Minimum Class Size - 15 students
- Maximum Class Size - 35 students
- No course pre-requisites

